ASTRONOMY & ASTROPHYSICS

SUPPLEMENT SERIES

A EUROPEAN JOURNAL

VOLUME 36

APRIL 1979 — JUNE 1979

Astronomy & Astrophysics Supplement Series

A European Journal

Scientific organizations in Belgium, France, Germany, Greece, Italy, the Netherlands, the Scandinavia countries, and Switzerland are combining their efforts in this enterprise with the administrative support of th European Southern Observatory (ESO). These scientific organizations have appointed the

Board of Directors

Chairman: A. Blaauw *(ESO)*

Y. Andrillat, *France*
H.G. van Bueren, *The Netherlands*
G. Contopoulos, *Greece*
R.A.J. Coutrez, *Belgium*
H.C. van de Hulst, *The Netherlands*
K. Hunger, *Germany*
R. Kippenhahn, *Germany*
J. Kovalevsky, *France*
G. Larsson-Leander, *Sweden*
W. Priester, *Germany*
A. Reiz, *Denmark*
L. Rosino, *Italy*
E. Schatzman, *France*
G. Setti, *Italy*
J.L. Steinberg, *France*
U. Steinlin, *Switzerland*
G. Traving, *Germany*

Editors-in-Chief

H.H. Voigt
Universitäts-Sternwarte Göttinge
D–3400 Göttingen, *Germany*

J. Lequeux
Observatoire de Meudon
F-92190 Meudon, *France*

Managing Editor

B. Hauck
Institut d'Astronomie de
l'Université de Lausanne et
Observatoire de Genève
CH–1290 Sauverny, *Switzerland*

Board of Editors

K. Bahner, *Heidelberg*
J.E. Baldwin, *Cambridge*
B. Baschek, *Heidelberg*
W. Becker, *Basel*
E.J. Blum, *Meudon*
K.H. Böhm, *Seattle*
J. Borgman, *Roden*
E.M. Burbidge, *La Jolla*
O.J. Eggen, *Woden*
W. Fricke, *Heidelberg*
V.L. Ginzburg, *Moscow*
M. Hénon, *Nice*
J.T. Jefferies, *Honolulu*
F.D. Kahn, *Manchester*
F.J. Kerr, *Maryland*
H. van der Laan, *Leiden*
P. Ledoux, *Liège*
J. Lequeux, *Meudon*
P.O. Lindblad, *Saltsjöbaden*
L. Mestel, *Brighton*
P.G. Mezger, *Bonn*
B. Morando, *Paris*
F. Pacini, *Frascati*
B.E.J. Pagel, *Hailsham*
L. Plaut, *Groningen*
F. Praderie, *Paris*
M.S. Roberts, *Green Bank*
M. Schmidt, *Pasadena*
E.H. Schröter, *Göttingen*
F. Spite, *Meudon*
A.B. Underhill, *Goddard Spac Flight Center*
H. van Regemorter, *Meudon*
L. Woltjer, *München*
J.P. Zahn, *Nice*
Ya. B. Zeldovich, *Moscow*
C. Zwaan, *Utrecht*

Published by the Astronomical Institute Lausanne and Geneva Observatory, Switzerland, on behalf of the Board of Directors

Copyright © by the European Southern Observatory (ESO)

Printed by Imprimeries Réunies, Lausanne, Switzerland

CONTENTS

J. Schober, F. Scaltriti and V. Zappalà
otoelectric Photometry and Rotation Periods of three large and dark Asteroids: 49 Pales, 88 Thisbe d 92 Undina 1

Débarbat
rrections to the Paper "Observations of Mars' Position with the Paris Astrolabe (1975-1976)" 9

Couteau
easurements of Double Stars made at Nice 11

Yavuz
Comparison of the Orbital Inclinations of the Spatially Close Spectroscopic Double Stars 25

Linnaluoto and V. Piirola
ur-Colour *uvby* Observations of W UMA 33

Gieseking
otoelectric Observations of the Peculiar Variable V 389 Cygni 37

V. Clausen
Photometric Analysis of V 539 Ara 45

Garrido, E.J. Alfaro, J.M. Quintana and M. Saez
otometry of the Dwarf Cepheids SZ Lyn and EH Lib 51

Bastian and R. Mundt
BV Photometry of T Tauri Stars and Related Objects 57

Lopez de Coca, V. Costa, A. Rolland and E.N. Walker
Band Photometry of ε Cep 61

Güdür, Ö. Gülmen, C.C. İbanoğlu and S. Bozkurt
vo-Colour Photometry of Eclipsing Binary BS Dra 65

Crivellari, U. Flora, L. Rusconi and G. Sedmak
e Visible Spectrum of β Ori, B8 Ia 73

Purgathofer
tension of two *UBV* Magnitude Sequences in the Selected Areas 82 and 107 by Electronography 79

O. Lodén
otometry of Loose Clusterings in the Southern Milky Way 83

N. Cleary, C. Heiles and C.G.T. Haslam
Synoptic View of the Galaxy in HI 95

Barbon, M. Capaccioli and W.G. Tifft
w Redshifts of Parent Galaxies of Supernovae 129

J. Allen and W.M. Goss
e Giant Spiral Galaxy M101: Complete Synthesis of the Distribution and Motions of the Neutral drogen 135

C. Mermilliod
Compilation of Transit Tables for Star Numbering in Open Clusters (Magnetic Tape) 163

RRATUM
Floquet, Vol. 30, p. 27 167

K. Milne and B.L. Webster
GHz Radio Frequency Measurements of Planetary Nebulae 169